Xmas 1980

DREMEL®

CONSTANT TORQUE
Moto-Tool Router

- Fingergrip Guidance
- Superior Visibility
- Depth Adjustment
- Integral Guide Bars
- Versatile Power Source
- Guaranteed

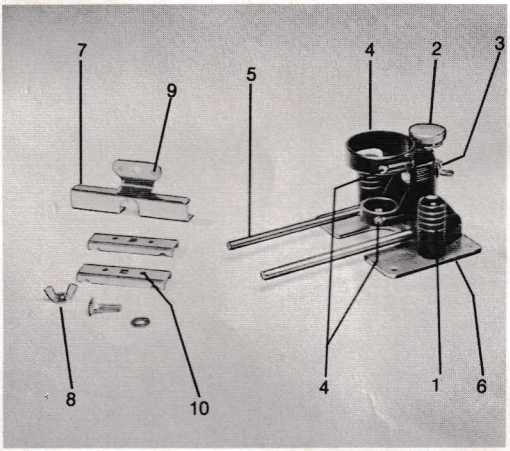
Read instruction booklet before operating Dremel Router Attachment Model 229

ROUTER ATTACHMENT

A router is one of the most versatile tools in the home workshop. It spins a chisel-shaped bit at speeds up to 30,000 rpm, producing smooth surfaces that need no sanding. A few minutes with the router will equal hours of chiseling, hand carving and sanding — with far better results.

You are fortunate in having chosen the Dremel Constant Torque Moto-Tool with router attachment for your routing work. Exceptional workmanship gives you a tool crafted for a lifetime of workshop pleasure. The router's expert design puts you closer to the work, with greater visibility and ease of control.

In the following pages you will learn how to connect the router attachment to your Constant Torque Moto-Tool, how to use the router and some suggested projects. Have fun!



The lightweight router attachment is made of steel and Delrin, an extremely tough duPont polymer guaranteed to give long life.

Two grips (1) give ease of control. A knurled knob (2) adjusts depth of cut up to 5/16 inch. One full turn of knob moves cutting bit 1/32 inch. A calibrated scale on side of router housing gives a measurement of cutting depth. A wing nut (3) locks the depth adjustment. Two threaded fasteners (4) tighten the split-rings that clamp the Constant Torque Moto-Tool into the attachment. Two guide rods (5) permit adjustment of edge guide out 2½ inches from cutting bit. Plastic mar-resistant base (6) has four holes for mounting to shaper table.

An edge guide (7) permits straight cuts to be made with accuracy. The edge guide clamps to two guide rods with a wing nut (8). Locators (9) on the channel fit into holes (10) to insure that edge guide is square with base.

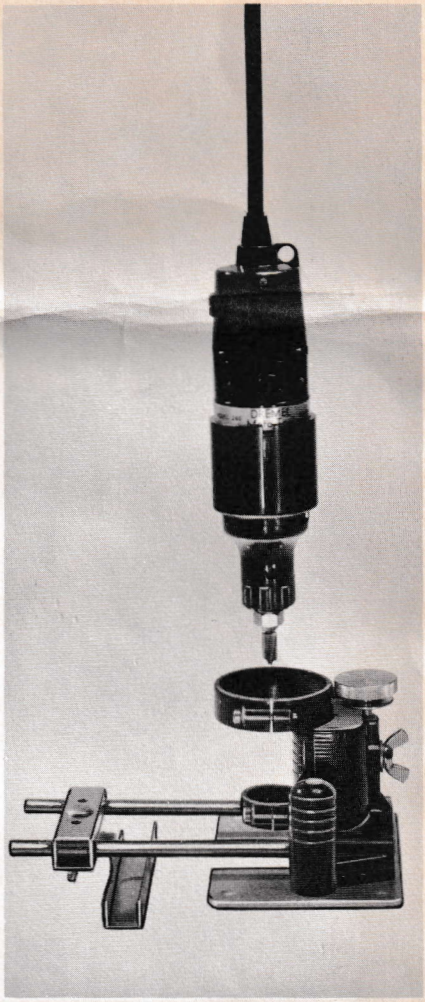
FITTING ATTACHMENT and router bit to Constant-Torque Moto-Tool.

Getting your Dremel router ready for use is an easy task, but taking time to read the following steps will make for more efficient use of the tool.

ROUTER BIT. Fit router bit, which has ⅛-inch shank, into Moto-Tool collet as you would other Moto-Tool accessories. Cutting part of bit should extend only about ½ inch below collet locking nut. All of the bit shank should be held firmly in the tool and only the cutting portion of the bit exposed.

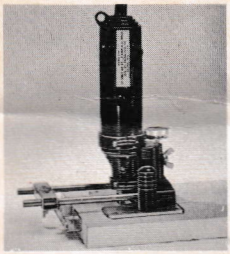
ROUTER. Loosen screws on split ring clamps. Loosen wing nut on height adjustment and turn depth adjusting knob so that movable split ring is as high as it will go. Place Moto-Tool in holder, making sure that tool rests on base of lower split ring. Split in sleeve on model 260 should be aligned with split in top split ring of router. BE SURE TO TIGHTEN SCREWS after Moto-Tool is in place.

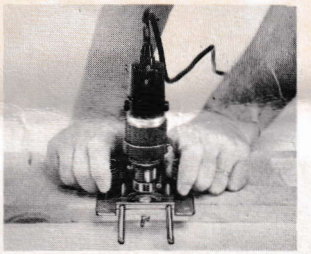
SLEEVE (If Required). Snap sleeve into place on Moto-Tool model 260. Groove inside top of sleeve snaps over ridge just below nameplate on Moto-Tool.

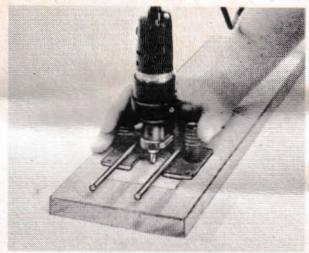


EDGE GUIDE. Edge guide clamps on rod guides as shown in photo. Wing nut can be loosened to adjust edge guide to desired distance.

HOW TO OPERATE YOUR DREMEL ROUTER







Operation of a router with the Constant-Torque Moto-Tool is made possible by a revolutionary new space age motor. The motor utilizes a ferrite ceramic permanent magnet for souped up, constant torque and a smooth cutting speed of 30,000 rpm (25,000 rpm for 370 and 380 Moto-Tools).

Like tools many times its size and cost, the Dremel Constant Torque Moto-Tool router will shape edges and cut rabbets, dadoes, mortises, tongues and chamfer. Used freehand, it carves out lettering, figures and patterns for signs and wall plaques.

If you've never used a router, collect some scrap wood, preferably soft pine, and practice routing on a few scrap pieces clamped to your workbench. When you get the "feel" of this versatile tool, you are ready for your first project.

Router Operating Precautions

ALWAYS UNPLUG THE MOTO-TOOL BEFORE CHANGING CUTTERS. Wear eye protection. Clamp work securely to workbench. Place router base on work with bit clear of wood before turning on power. Turn off motor before lifting router from the work. A three-prong plug provides proper grounding.

The Moto-Tool turns in a clockwise direction when viewed from above. For better control in making an edge, move the router in the direction that tends to put the tool into the wood. This will keep the bit from tending to "walk" away from the edge. If cutting around the edge of a circular piece, move the Moto-Tool in a counterclockwise direction.

When making a blind cut, a maximum depth of 3/16 inch is recommended for longer life of tool and cutter. Using the edging guide when making internal straight cuts is recommended. See photo.

When ready to operate the tool, select desired cutter and insert it in collet so that only cutting portion extends below chuck cap.

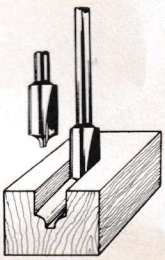
To set depth of cut, loosen wing nut located at the back of the router, turn large knurled adjusting knob until the cutter extends to desired depth. If depth is to be changed, one complete turn of the adjusting knob will move bit 1/32 of an inch. Backlash of the adjusting screw must always be taken up in the same direction to get accurate depth adjustment. A scale on left side of router measures change increments in 1/16 inch graduation.

When making a cut, grasp the fool firmly by the small posts on each side near the base and hold it securely against the workpiece as shown in photo. For accurate work, you will find that you can control the tool better by holding the heel of your hands on the workpiece and guiding the tool with your fingers. When routing out excess material, such as a recess for a door hinge, use the heel of your hand as a pivot point and cut in a side to side pattern, avoiding a blind cut, as shown in the photo.

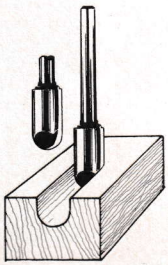
Do not attempt to force a cut. The rate of feed will vary with hardness of wood and size of cut.

ROUTER BITS

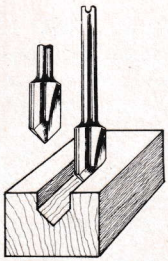
Dremel router bits are of high speed tool steel and can be re-sharpened. Touch up dull bits by honing from the inside edge. Observe a few precautions and the bits will give you many years use. One of the ways to ruin a bit is to get it hot. Avoid blind cuts whenever possible. Having one side of the bit open permits it to run cooler and clear itself of chips. Avoid cutting paint, varnish, dried glue or composition material, for they are very abrasive and will destroy a cutter in a short time.



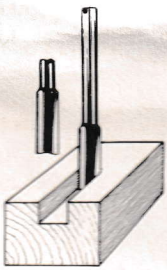
(632)
Veining Bit



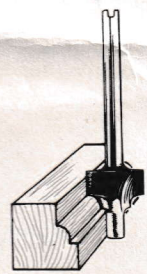
(610) Convex
Edger for Beading



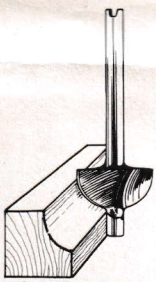
(640)
V-Groove Bit



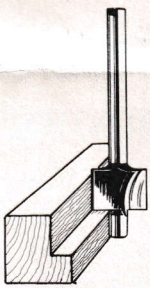
(650, 652, 654)
Straight Cutter Bits



(612)
Beading Bit



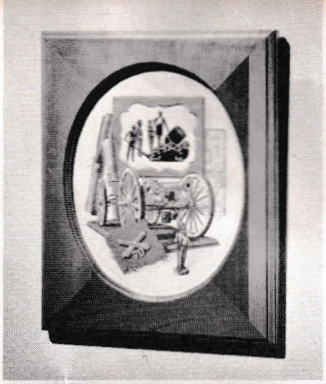
(613)
Cove Bit



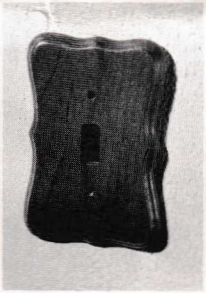
(614)
Rabbeting Bit

SOME PROJECTS YOU CAN MAKE

A router gives a professional touch, such as attractive edging, to many wood projects. But, it can also be the principal tool for many home shop projects. Removed from the adapter, the Moto-Tool can be used for carving, blending and feathering. Here are a few projects you can make with your Dremel router.

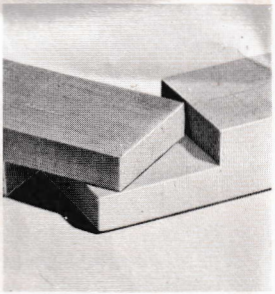


PICTURE FRAMES are easily made from 1 x 2 white pine, first routing out recess for inserting picture, then edging with beading bit and cutting out with saw.

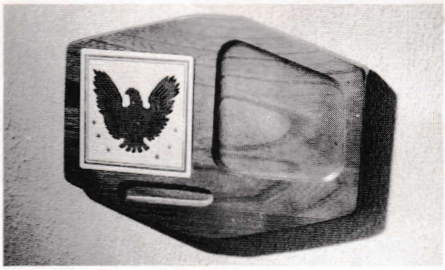


SWITCH PLATE of hardwood is cut to fit wall switch, then edged with beading bit.

CORNER JOINT is end-lap, one of the easiest for furniture making. Can be formed in minutes with Dremel router.



CHEESE TRAY is made by routing out areas for inlaying ceramic tile and cheese. Inlaying is accurate and quick with Dremel router.

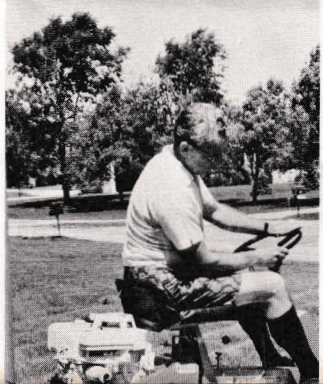


NAME SIGN is fun project with router. Using redwood or white cedar, route out letters, stain the wood, then paint letters in contrasting color.

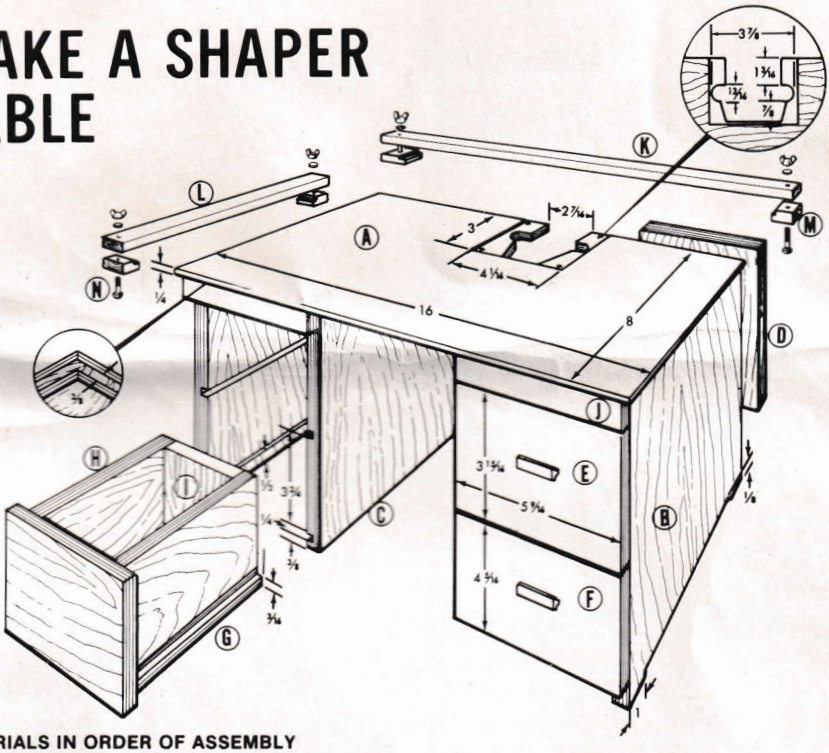
WALL PLAQUE figure is routed with veining bit. Plaque may be stained and wiped with cloth; routed portion remains dark.

When you're through routing . . .

Don't forget that your Dremel router is a combination of the world's finest multi-purpose tool, the Moto-Tool, and a rugged router base. The Moto-Tool is a versatile tool in the home shop. It's a hand-grinder, high-speed drill, carving tool, drum sander, saw, engraver and deburring tool. Truly, a tool of 1,001 uses.

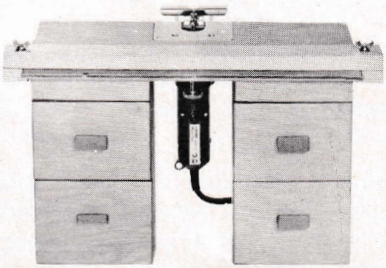


MAKE A SHAPER TABLE



MATERIALS IN ORDER OF ASSEMBLY

A. One table top 16 x 8 x ½
B. Two outside pieces 6¾ x 9½ x ½. Start drawer guides ½ from bottom.
C. Two inside pieces 6¾ x 9⅜ x ½. Start drawer guides ½ from bottom.
D. Two backs 4⅝ x 9⅜ x ½.
E. Two upper drawer fronts 5-9/16 x 3-15/16 x ½.
F. Two lower drawer fronts 5-9/16 x 4-5/16 x ½.
G. Four drawer bottoms 5 x 6⅛ x ½. Route a 3/16 x 3/16 lip on bottom edge.
H. Eight drawer sides 6-3/16 x 3-7/16 x ½.
I. Four drawer backs 3-9/16 x 3-7/16 x ½.
J. Two front supports 5-9/16 x 1 x ½.
K. One guide 18" x 1¾ x ¾.
L. One guide 10" x 1¾ x ¾.
M. Four table guide clamps 1½ x 1¾ x ¾ notch to fit table top.
N. Four bolts 1¾ x 3/16 with washers and wing nuts.



Your Dremel Moto-Tool router is easily mounted in a small table for use as a shaper. As a shaper, it will cut molding and form various decorative shapes on the edges of work. It can also be used to accurately cut many wood joints.

An exploded view drawing and instructions are given here for building a table that will add versatility to your workshop.

A few words of caution about using a shaper. Cut only new stock that is straight and true and free of loose knots. Use a board for pushing work past the cutter when your fingers get within 4 inches of cutter. Make a trial cut before finish cut. Feed stock against rotation of cutter. To check direction of rotation, snap switch off and on quickly.

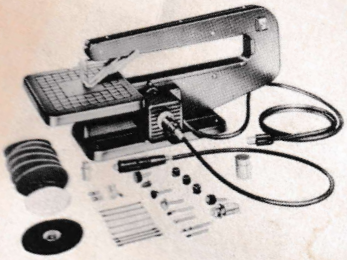
Ask about Dremel's full line of Creative Power Tool

Moto-Tool

Now in 5 different models: New Variable Speed tool lets you match the speed to the job. Handy Moto-Tool kits are available for each model. Kits contain over 30 accessories to handle drilling, carving, sanding, grinding, cutting, shaping and more!

Dremel Engraver

Creative engraving and theft prevention! Engraves permanently on most materials. Marks valuables for easy identification. Protects cameras, tools, sports gear. Ideal for engraving jewelry, trophies, glassware and ceramics.



Moto-Shop

Complete power workshop for any age! It's a 15" scroll saw with a power takeoff and flexible shaft tool. Saw, drill, sand, polish, rout, buff, carve, engrave . . . almost any power job! Perfect for the craftsman or do-it-yourselfer. Safe, compact, fun!

LIMITED WARRANTY

Dremel Power Tools are guaranteed against defective material or workmanship for a period of one full year from date of purchase. But if for some reason trouble should develop, please do the following:

(1) Return the tool prepaid direct to the Dremel Service Center, P.O. Box 954, Racine, Wis. 53405

(2) Enclose a note telling us exactly what the problem is.

If our inspection shows that the trouble was caused by defective parts or workmanship, we will make all repairs free of charge and return prepaid to you. Repairs made necessary by normal wear, abuse, or out of warranty will be charged for at our regular low factory prices. We will try to return your repaired Dremel Power Tool to you within 72 hours after we receive it at the Dremel factory. Outside the United States forward guarantee to your local Dremel distributor.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

DREMEL® MFG. DIVISION
EMERSON ELECTRIC CO.
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Racine, Wisconsin 53406

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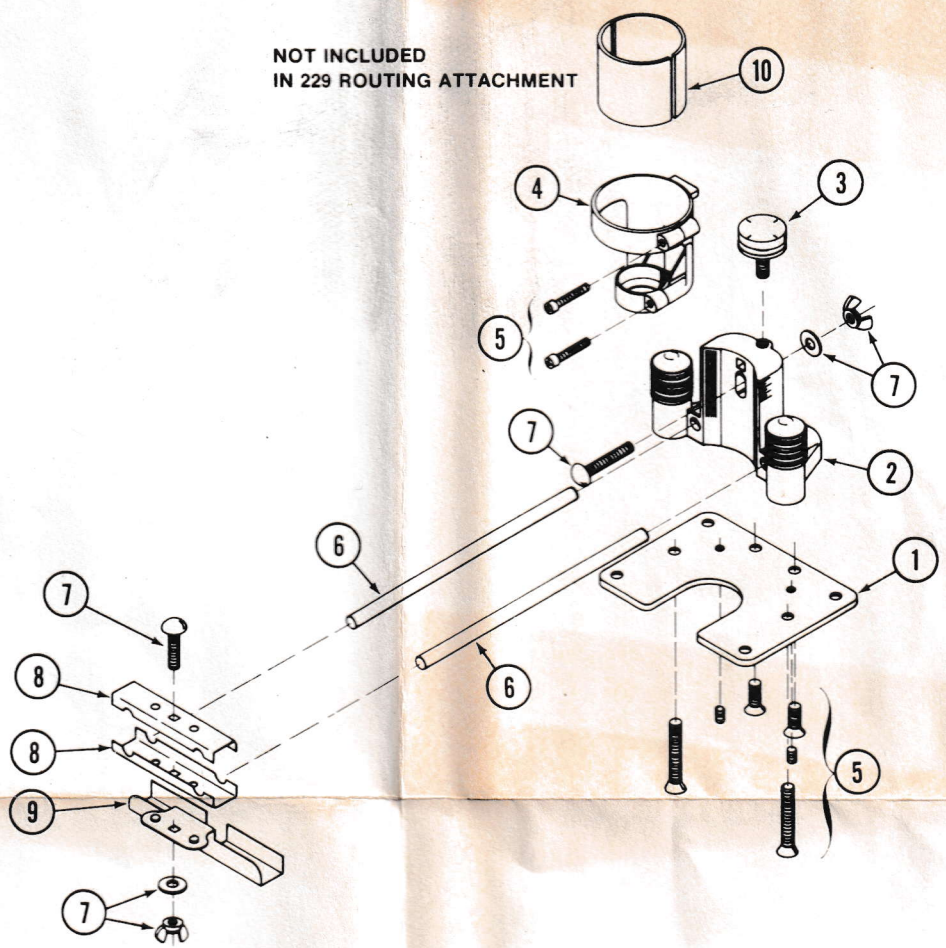
DREMEL® MODEL 229 ROUTER ATTACHMENT



Code No.	Part No.	Description
1	630103	Base Plate
2	630100	Stand
3	630106	Adjusting Screw
4	630101	Clamp Moto-Tool
5	990852	Screws (Set of 8)
6	630109	Rod, Guide (2 Reqd.)

Code No.	Part No.	Description
7	990853	Hardware (2 Screws, 2 Washers, 2 Wing Nuts)
8	630107	Clamp (2 Reqd.)
9	630108	Guide
10	550090	Adaptor Sleeve

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Dremel Service Center, P.O. Box 954, Racine, WI 53405

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EASTERN CANADA
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WESTERN CANADA
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